

## IN THE CLAIMS

Claims 1, 15, 17, 33, 36, 39, 42, 45, and 46 are hereby amended. Claims 49, 50, and 51 are hereby added.

1           1.       (Currently Amended) A computer-implemented method for the real-time  
2 tracking of goods in a supply chain, including:  
3           affixing a tag to each good to be tracked and/or to each conveyance used to store  
4                   or carry the goods;  
5           marking the location of one of the goods at a data appliance and storing  
6           information on said location at a site server to said data appliance;  
7           uploading said information to a data center, said data center coupled to said site  
8           server;  
9           compensating for missing information by using a previous tag read and a current  
10           tag read ~~a mistake in said marking by a creating tag read at said data~~  
11           ~~center for a missing tag read~~; and  
12           charging users of said supply chain a fee dependent on the number of tracked  
13           goods to access said data center and view reports compiled using said  
14           location information regarding each tracked good.

1           2.       (Original) The method of claim 1, further including aggregating one or  
2 more of said goods into a conveyance at a data point and wherein said marking includes  
3 indicating an aggregation event occurred at said data point.

1           3.       (Original) The method of claim 2, wherein said marking further includes  
2 performing aggregation-by-inference, wherein an aggregation event occurring at said  
3 location for a conveyance automatically indicates that said conveyance has been  
4 completely filled with items.

1           4.       (Original) The method of claim 2, further including performing de-  
2 aggregation-by-inference at a second data point, wherein a de-aggregation event  
3 indicating that all items have been removed from said conveyance is generated.

1           5.       (Original) The method of claim 1, wherein said tag affixed to said one of  
2 the goods is a Radio Frequency Identification (RFID) tag and said marking includes  
3 scanning said tag affixed to said one of the goods using an RFID reader.

1           6.       (Original) The method of claim 1, wherein said one of the goods is stored  
2 in one of said conveyances, and said marking includes scanning said tag affixed to said  
3 one of said conveyances using a reader.

1           7.       (Original) The method of claim 1, wherein said marking includes  
2 scanning a tag using a tag reader.

1           8.       (Previously Presented) The method of claim 7, wherein said tag reader is  
2 coupled to a data appliance.

1           9.       (Previously Presented) The method of claim 7, wherein said tag reader is  
2 part of a data appliance.

1           10.      (Original) The method of claim 1, wherein said marking includes tracking  
2 said one of the goods using global positioning satellite (GPS) technology.

1           11.      (Original) The method of claim 1, wherein said storing utilizes the  
2 Universal Data Appliance Protocol (UDAP) to communicate said location information  
3 from said data appliance to said site server.

1           12.      (Previously Presented) The method of claim 1, further including  
2 accessing said data center and viewing said reports.

1           13.      (Original) The method of claim 1, further including aggregating a good  
2 into a conveyance when said good is loaded into said conveyance and de-aggregating  
3 said good from said conveyance when said good is unloaded from said conveyance.

1           14.      (Cancelled)

1           15.      (Currently Amended) The method of claim 1, wherein said compensating  
2 includes detecting that ~~said~~ a missing tag read occurred by learning that a tag read was

3 made on said good at a first location and at a third location, but not at a second location,  
4 wherein said good could not arrive at said third location without first passing through said  
5 second location.

1 16. (Original) The method of claim 1, further including filtering out any  
2 duplicative tag reads.

1 17. (Currently Amended) A computer-implemented method for the real-time  
2 tracking of goods in a supply chain, including:  
3 affixing a tag to each good to be tracked and/or to each conveyance used to store  
4 or carry the goods;  
5 marking the location of one of the goods at a data appliance and storing  
6 information on said location at a site server coupled to said data appliance;  
7 uploading said location information to a data center, said data center coupled to  
8 said site server;  
9 compensating for missing information by using a previous tag read and a current  
10 tag read ~~a mistake in said marking by a creating tag read at said data~~  
11 ~~center for a missing tag read~~; and  
12 charging users of said supply chain a fee per transaction to access said data center  
13 and view information regarding each tracked good, each transaction  
14 including a single tag read.

1 18. (Original) The method of claim 17, further including aggregating one or  
2 more of said goods into a conveyance at a data point and wherein said marking includes  
3 indicating an aggregation event occurred at said data point.

1 19. (Original) The method of claim 18, wherein said marking further includes  
2 performing aggregation-by-inference, wherein an aggregation event occurring at said  
3 location for a conveyance automatically indicates that said conveyance has been  
4 completely filled with items.

1           20.     (Original) The method of claim 18, further including de-aggregation-by-  
2 inference at a second data point, wherein a de-aggregation event indicating that all items  
3 have been removed from said conveyance is generated.

1           21.     (Original) The method of claim 17, wherein said tag affixed to said one of  
2 the goods is a Radio Frequency Identification (RFID) tag and said marking includes  
3 scanning said tag affixed to said one of the goods using an RFID reader.

1           22.     (Original) The method of claim 17, wherein said one of the goods is  
2 stored in one of said conveyances, and said marking includes scanning said tag affixed to  
3 said one of said conveyances using a reader.

1           23.     (Original) The method of claim 17, wherein said marking includes  
2 scanning a tag using a tag reader.

1           24.     (Previously Presented) The method of claim 23, wherein said tag reader is  
2 coupled to said data appliance.

1           25.     (Previously Presented) The method of claim 23, wherein said tag reader is  
2 part of said data appliance.

1           26.     (Original) The method of claim 17, wherein said marking includes  
2 tracking said one of the goods using global positioning satellite (GPS) technology.

1           27.     (Original) The method of claim 17, wherein said storing utilizes the  
2 Universal Data Appliance Protocol (UDAP) to communicate location information from  
3 said data appliance to said site server.

1           28.     (Previously Presented) The method of claim 17, further including said  
2 accessing said data center and viewing reports.

1           29.     (Original) The method of claim 17, further including aggregating a good  
2 into a conveyance when said good is loaded into said conveyance and de-aggregating  
3 said good from said conveyance when said good is unloaded from said conveyance.

1           30.     (Cancelled)

1           31.     (Previously Presented) The method of claim 17, wherein said  
2     compensating includes detecting that a missing tag read occurred by learning that a tag  
3     read was made on said good at a first location and at a third location, but not at a second  
4     location, wherein said good could not arrive at said third location without first passing  
5     through said second location.

1           32.     (Original) The method of claim 29, further including filtering out any  
2     duplicative tag reads.

1           33.     (Currently Amended) A system for real-time tracking of goods in a supply  
2     chain, including:

3             a data center comprising compensation logic;

4             one or more site servers coupled to said data center;

5             one or more data appliances, each of said data appliances coupled to one of said  
6             site servers; and

7             one or more tags, each of said tags affixed to a good or conveyance in a way such  
8             that they are readable by tag reader coupled to or part of said data  
9             appliances;

10            wherein said compensation logic compensates for missing information by using a  
11            previous tag read and a current tag read, a mistake by creating a tag read  
12            for a missing tag read, and users are charged a fee per good tracked to  
13            access said data center and view reports compiled using location  
14            information regarding each tracked good.

1           34.     (Previously Presented) The system of claim 33, wherein said tags and tag  
2     readers both utilize Radio Frequency Identification (RFID) technology.

1           35.     (Original) The system of claim 33, further including an Intransit Data  
2     Appliance (IDA) and an Enterprise Server, said Enterprise server coupled to said data  
3     center and said IDA coupled to said Enterprise Server to transmit data on the location of a  
4     good or conveyance using Global Positioning Satellite (GPS) technology.

1           36.     (Currently Amended) A system for real-time tracking of goods in a  
2 supply chain, including:  
3           a data center comprising compensation logic;  
4           one or more site servers coupled to said data center;  
5           one or more data appliances, each of said data appliances coupled to one of said  
6           site servers;  
7           one or more tags, each of said tags affixed to a good or conveyance in a way such  
8           that they are readable by tag reader coupled to or part of said data  
9           appliances, ~~and~~  
10          wherein said compensation logic compensates for missing information by using a  
11           previous tag read and a current tag read, ~~a mistake by creating a tag read~~  
12           ~~for a missing tag read~~, and users are charged a fee per transaction to access  
13           said data center and view reports compiled using location information  
14           regarding each tracked good, each of said transactions including a tag  
15           read.

1           37.     (Previously Presented) The system of claim 36, wherein said tags and tag  
2 readers both utilize Radio Frequency Identification (RFID) technology.

1           38.     (Original) The system of claim 36, further including an Intransit Data  
2 Appliance (IDA) and an Enterprise Server, said Enterprise server coupled to said data  
3 center and said IDA coupled to said Enterprise Server to transmit data on the location of a  
4 good or conveyance using Global Positioning Satellite (GPS) technology.

1           39.     (Currently Amended) A system for real-time tracking of goods in a  
2 supply chain, including:  
3           a collaboration center;  
4           one or more data centers comprising compensation logic, coupled to said  
5           collaboration center;  
6           one or more site servers coupled to said data center;  
7           one or more data appliances, each of said data appliances coupled to one of said  
8           site servers;

9 one or more tags, each of said tags affixed to a good or conveyance in a way such  
10 that they are readable ~~can be read~~ by tag reader coupled to or part of said  
11 data appliances, ~~;~~ and  
12 wherein said compensation logic compensates for missing information by using a  
13 previous tag read and a current tag read, ~~a mistake by creating a tag read~~  
14 ~~for a missing tag read~~, and users are charged a fee per good tracked to  
15 access said data center and view location information regarding each  
16 tracked good.

1 40. (Previously Presented) The system of claim 39, wherein said tags and tag  
2 readers both utilize Radio Frequency Identification (RFID) technology.

1 41. (Original) The system of claim 39, further including an Intransit Data  
2 Appliance (IDA) and an Enterprise Server, said Enterprise server coupled to said data  
3 center and said IDA coupled to said Enterprise Server to transmit data on the location of a  
4 good or conveyance using Global Positioning Satellite (GPS) technology.

1 42. (Currently Amended) A system for real-time tracking of goods in a  
2 supply chain, including:  
3 a collaboration center;  
4 one or more data centers comprising compensation logic, coupled to said  
5 collaboration center;  
6 one or more site servers coupled to said data center;  
7 one or more data appliances, each of said data appliances coupled to one of said  
8 site servers;  
9 one or more tags, each of said tags affixed to a good or conveyance in a way such  
10 that they are readable by tag reader coupled to or part of said data  
11 appliances, ~~;~~ and  
12 wherein said compensation logic compensates for missing information by using a  
13 previous tag read and a current tag read, ~~a mistake by creating a tag read~~  
14 ~~for a missing tag read~~, and said users are charged a fee per transaction to  
15 access said data center and view reports compiled using location

16 information regarding each tracked good, each of said transactions  
17 including a tag read.

1 43. (Previously Presented) The system of claim 42, wherein said tags and tag  
2 readers both utilize Radio Frequency Identification (RFID) technology.

1 44. (Original) The system of claim 42, further including an Intransit Data  
2 Appliance (IDA) and an Enterprise Server, said Enterprise server coupled to said data  
3 center and said IDA coupled to said Enterprise Server to transmit data on the location of a  
4 good or conveyance using Global Positioning Satellite (GPS) technology.

1 45. (Currently Amended) A program storage device readable by a machine,  
2 tangibly embodying a program of instructions executable by the machine to perform a  
3 method for the real-time tracking of goods in a supply chain, the method including:  
4 affixing a tag to each good to be tracked and/or to each conveyance used to store  
5 or carry the goods;  
6 marking the location of one of the goods at a data appliance and storing  
7 information on said location at a site server coupled to said data appliance;  
8 uploading said location information to a data center, said data center coupled to  
9 said site server;  
10 compensating for missing information by using a previous tag read and a current  
11 tag read ~~a mistake in said marking by a creating tag read at said data~~  
12 ~~center for a missing tag read~~; and  
13 charging users of said supply chain a fee dependent on the number of tracked  
14 goods to access said data center and view reports compiled using location  
15 information regarding each tracked good.

1 46. (Currently Amended) A program storage device readable by a machine,  
2 tangibly embodying a program of instructions executable by the machine to perform a  
3 method for the real-time tracking of goods in a supply chain, the method including:  
4 affixing a tag to each good to be tracked and/or to each conveyance used to store  
5 or carry the goods;  
6 marking the location of one of the goods at a data appliance and storing



7 information on said location at a site server coupled to said data appliance;  
8 uploading said information to a data center, said data center coupled to said site  
9 server;  
10 compensating for missing information by using a previous tag read and a current  
11 tag read ~~a mistake in said marking by a creating tag read at said data-~~  
12 ~~center for a missing tag read;~~ and  
13 charging users of said supply chain a fee per transaction to access said data center  
14 and view information regarding each tracked good, each transaction  
15 including a single tag read.

1 47. (Previously Presented) The system of claim 33, wherein said site server is  
2 configured to aggregate one or more of said goods into a conveyance at a data point and  
3 indicate an aggregation event.

1 48. (Previously Presented) The system of claim 47, wherein said site server is  
2 further configured to perform aggregation-by-inference, wherein an aggregation event  
3 automatically indicates that said conveyance has been completely filled with items.

1 49. (New) The method of claim 1, wherein said compensating comprises  
2 compensating for missing information about a good by using aggregation information  
3 derived from a previous tag read with and a current tag read to create a missing tag read  
4 for the good.

1 50. (New) The method of claim 1, wherein said compensating comprises  
2 compensating for missing information about a second location by using location  
3 information from a previous tag read at a first location with location information from a  
4 current tag read at a third location to create a missing tag read for the good at the second  
5 location.

1 51. (New) The method of claim 1, further comprising:  
2 receiving the missing information subsequent to the compensating; and  
3 repacing the compensated information with the missing information.